

Credit Information

Stream Restoration for Design Professionals

This webinar is open to the public and offers 6.5 PDHs to professional engineers and 6.5 HSW continuing education hours to architects in all states. It offers 6.5 HSW continuing education hours to landscape architects in most states. HalfMoon Education is not seeking landscape architect approval in Florida, New Jersey, or North Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers, architects and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2), §69.6(i)(2) and §79-1.5(i) (2)). Courses approved by the AIA/CES qualify for Florida architects. Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved HalfMoon Education as a continuing education sponsor (No. J885) and the course is approved for 6.5 LU|HSW. Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

The Association of State Floodplain Managers has approved this event for 6.5 CECs for Certified Floodplain Managers. ASFPM approval qualifies this course for Texas floodplain managers.

Completion certificates will be awarded to participants who complete this event online, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Industrial Stormwater Management

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The Association of State Floodplain Managers has approved this event for 6.0 CECs for Certified Floodplain Managers. ASFPM approval qualifies this course for Texas floodplain managers.

The International Code Council has approved this event for .6 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event online, respond to all prompts, and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Live, Interactive Webinars

- Stream Restoration for Design Professionals
- Industrial Stormwater Management

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Live, Interactive Webinars

Stream Restoration for Design Professionals

- Friday, November 12, 2021 | 9:00 am - 4:30 pm CST

Industrial Stormwater Management

- Friday, November 19, 2021 | 9:00 am - 4:00 pm CST

To register, view detailed presenter biographies,
and see other learning opportunities, please visit:

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HalfMoon Education Live Webinars



Stream Restoration for Design Professionals

Friday, November 12, 2021 | 9:00 am - 4:30 pm CST

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AIA: 6.5 LU|HSW Landscape Architects: 6.5 HSW CE Hours
LA CES: 6.5 HSW PDHs Floodplain Managers: 6.5 ASFPM CECs



Industrial Stormwater Management

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AIA: 6.0 LU|HSW Landscape Architects: 6.0 HSW CE Hours
LA CES: 6.0 HSW PDHs Floodplain Managers: 6.0 ASFPM CECs
International Code Council: .6 CEUs (Sitework)



AIA
Continuing
Education
Provider



PREFERRED
EDUCATION
PROVIDER



HalfMoon Education Inc.
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Stream Restoration for Design Professionals

Friday, November 12, 2021 | 9:00 am - 4:30 pm CST (incl. a 30-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours
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Agenda

The Behavior of Surface Water

- Flow measurement
- Historical records
- H&H modeling methods
- Understanding human impacts
- Causes of river degradation

Introduction to Geomorphology

- Fluvial geomorphology 101
- The 4 dimensions (section, planform, profile, time)
- Channel evolution
- Stream hydraulics
- Stream ecology

Tools for Assessment and Restoration

- Rapid watershed assessment methods
- Prescribed treatments
- In-stream structures (profile)
- Streambank stabilization (section)
- Planform reconstruction (planform)
- Buffer revegetation
- Watershed management
- Project examples

Design Considerations

- Plans and specifications
- Stakeout and structure tables
- Submittals and deliverables
- Project stop points
- Site preparation
- Erosion and sediment control
- Managing invasive vegetation
- Successful riparian restoration

Lessons Learned: Construction Considerations

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Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of these webinars are available for purchase. Visit these course listings on our website for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit. Self-study packages do not qualify for AIA or LA CES credit.

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International Code Council: .6 CEUs (Sitework)

Agenda

Understanding the Federal Industrial Stormwater Program

- Laws and regulations
- Determining eligibility
- Certifying for no exposure
- Reviewing permit requirements
- Understanding the permitting process
- Exploring permit maintenance and maintenance fees

Examining Stormwater Pollutants and the Development of Total Maximum Daily Loads (TMDLs)

- Total suspended solids
- Oxygen-demanding substances
- Excess nutrients
- Metals
- Other common pollutants
- Project profiles

Creating Stormwater Pollution Prevention Plans (SWPPPs)

- Complying with stormwater control measure requirements
- Describing facility
- Providing assessment of activities and materials
- Including modification and reporting requirements
- Including availability requirements
- Construction site runoff control

Implementing Best Management Practices (BMPs), Sampling and Reporting BMPs to Achieve "No Exposure"

- Stormwater reduction
- Reuse of stormwater
- Stormwater control/management
- Structural BMPs for treating stormwater
- Contingency planning for extreme weather
- Setting up monitoring procedures
- Collecting and evaluating samples
- Submitting annual reports
- Modifying BMPs

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Faculty

Stream Restoration for Design Professionals

Brian J. Kwiatkowski *Applied Ecological Services*

Mr. Kwiatkowski is a certified professional ecologist (CE) and fluvial geomorphologist, with nearly 20 years of experience in the fields of watershed planning, green infrastructure design, and ecosystem restoration. Mr. Kwiatkowski has extensive training in the analysis and design of riverine systems, including Newbury Hydraulics and Rosgen Level IV Natural Channel Design certification. He is responsible for developing watershed management plans, river and stream restoration projects, and sustainable stormwater systems. He has collected and analyzed data on more than 400 miles of open channel throughout North America, including geomorphic and vegetative process indicators, habitat evaluation, and sediment transport data. Mr. Kwiatkowski has also contributed to stormwater best management practice (BMP) manuals addressing the design of open channels, design of storm drainage facilities, green infrastructure planning, and water quality improvement. He has provided design, inspection and construction management services for numerous projects throughout the United States.

Industrial Stormwater Management

Erik White *President, UEG Consulting, LLC*

Mr. White has over 20 years of experience in engineering, ranging from compliance and industrial wastewater and air treatment system evaluations to remedial study/design projects. Mr. White works with clients across a variety of industries, including iron and steel, utilities, specialty chemicals, food and food additive processing, and petroleum refining. He has particular expertise in industrial wastewater and stormwater regulatory review and implementation support under the National Pollutant Discharge Elimination System (NPDES) program. Mr. White also provides Section 316(b) implementation support, including evaluation of existing intake structures, design of data collection programs, interpretation of results, and recommendations for improvements. He works on conceptual-level design of industrial wastewater and groundwater treatment systems and conceptual-level studies with respect to appropriate alternatives for remediation of contaminated soil and groundwater. Mr. White earned a BS degree in Civil Engineering from the University of Massachusetts in Amherst and an MS degree in Environmental Engineering from the University of Michigan. He is a licensed professional engineer in New York, New Jersey, Illinois, Maryland and Delaware.

Additional Learning

The Tree Course:

Science, Design, and Sustainability

- Fri, Oct 15, 2021 | 7:30 am - 3:30 pm CDT

AIA Contract Document Workshop

- Mon, Oct 18, 2021 | 8:30 am - 4:30 pm CDT

Handling Ethical Issues

in Construction Contracting

- Mon, Oct 18, 2021 | 10:00 - 11:00 am CDT

Retaining Walls

and Lateral Earth Pressure

- Wed, Oct 20, 2021 | 10:00 am - 12:00 pm CDT

Effective Stormwater Infiltration

- Tues, Oct 26, 2021 | 8:30 am - 4:45 pm CDT

How to Analyze Common

Construction Defects and Failures

- Tues, Oct 26, 2021 | 2:00 - 4:00 pm CDT

Focus on Natural Restoration

- Wed, Oct 27, 2021 | 10:00 am - 12:00pm CDT

Handling Ethical Issues Associated with Construction Defects and Failures

- Wed, Oct 27, 2021 | 9:00 - 10:00 am CDT

How to Irrigate Sustainably

- Wed, Oct 27, 2021 | 1:00 - 4:15 pm

Internal Design of MSE Walls and Geosynthetics

- Wed, Oct 27, 2021 | 10:00 am - 1:15 pm CDT

Vegetated Green Roof Technology: Design and Construction

- Thurs, Oct 28, 2021 | 8:30 am - 4:00 pm CDT

For more information and other online learning opportunities visit: www.halfmoonseminars.org